

AN ORDINANCE OF THE CITY OF FRISCO, TEXAS, REPEALING ORDINANCE NO. 08-01-11; AMENDING DIVISION 9 (MECHANICAL SYSTEMS), ARTICLE IV (TECHNICAL CODES), CHAPTER 18 (BUILDINGS AND BUILDING REGULATIONS), PART II OF THE FRISCO CODE OF ORDINANCES; ADOPTING THE 2012 EDITION OF THE INTERNATIONAL MECHANICAL CODE, SAVE AND EXCEPT THE DELETIONS AND ADDITIONS SET FORTH HEREIN; REGULATING THE DESIGN, INSTALLATION, MAINTENANCE, ADDITION, ALTERATION AND INSPECTION OF MECHANICAL SYSTEMS THAT ARE PERMANENTLY INSTALLED AND UTILIZED TO PROVIDE CONTROL OF ENVIRONMENTAL CONDITIONS AND RELATED PROCESSES WITHIN BUILDINGS LOCATED WITHIN THE CITY OF FRISCO, TEXAS; PROVIDING FOR A PENALTY FOR THE VIOLATION OF THIS ORDINANCE; PROVIDING FOR REPEALING, SAVINGS AND SEVERABILITY CLAUSES; PROVIDING FOR AN EFFECTIVE DATE OF THIS ORDINANCE; AND PROVIDING FOR THE PUBLICATION OF THE CAPTION HEREOF.

WHEREAS, the City Council of the City of Frisco, Texas ("City Council") has investigated and determined that it would be advantageous, beneficial and in the best interest of the citizens of the City of Frisco, Texas ("Frisco") to amend Division 9 (Mechanical Systems), Article IV (Technical Codes), Chapter 18 (Buildings and Building Regulations), Part II of the Frisco Code of Ordinances by adopting the 2012 Edition of the International Mechanical Code, save and except the deletions and additions set forth below; and

WHEREAS, the City Council has investigated and determined that in order to most effectively make the deletions and additions necessary to Division 9 (Mechanical Systems), Article IV (Technical Codes), Chapter 18 (Buildings and Building Regulations), Part II of the Frisco Code of Ordinances, it is in the best interest of the citizens of Frisco to repeal Ordinance No. 08-01-11 (Mechanical Code), in its entirety, and replace it with this Ordinance, adopting the 2012 Edition of the International Mechanical Code, save and except the deletions and additions set forth below.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF FRISCO, TEXAS:

SECTION 1: Findings Incorporated. The findings set forth above are incorporated into the body of this Ordinance as if fully set forth herein.

SECTION 2: Repeal of Ordinance No. 08-01-11. Ordinance No. 08-01-11 is hereby repealed, in its entirety, and replaced by this Ordinance. The effective date of the repeal discussed in this Section shall not occur until the effective date of this Ordinance at which time Ordinance No. 08-01-11 shall be repealed. Such repeal shall not abate any pending prosecution and/or lawsuit or prevent any prosecution and/or lawsuit from being commenced for any violation of Ordinance No. 08-01-11 occurring before the effective date of this Ordinance.

SECTION 3: Amendment to Division 9 (Mechanical Systems), Article IV (Technical Codes), Chapter 18 (Buildings and Building Regulations), Part II of the Frisco Code of Ordinances. Division 9 (Mechanical Systems), Article IV (Technical Codes), Chapter 18 (Buildings and Building Regulations), Part II of the Frisco Code of Ordinances is hereby amended for the sole purpose of adopting new mechanical code regulations as set forth in the International Mechanical Code, copyrighted by the International Code Council, Inc., save and except the deletions and additions set forth in Exhibit "A", attached hereto and incorporated herein for all purposes, regulating the design, installation, maintenance, addition, alteration and inspection of mechanical systems that are permanently installed and utilized to provide control of environmental conditions and related processes within buildings located within Frisco ("2012 International Mechanical Code"). The 2012 International Mechanical Code is made a part of this Ordinance as if fully set forth herein. Three (3) copies of the 2012 International Mechanical Code are on file in the office of the City Secretary of Frisco being marked and designated as the 2012 International Mechanical Code. The deletions and additions set forth in Exhibit "A" are located on Frisco's website under Development Services.

SECTION 4: Savings/Repealing Clause. All provisions of any ordinance in conflict with this Ordinance are hereby repealed to the extent they are in conflict; but such repeal shall not abate any pending prosecution for violation of the repealed ordinance, nor shall the repeal prevent a prosecution from being commenced for any violation if occurring prior to the repeal of the ordinance. Any remaining portion of conflicting ordinances shall remain in full force and effect.

SECTION 5: Penalty Provision. Any person, firm, corporation or business entity violating this Ordinance shall be deemed guilty of a misdemeanor, and upon conviction therefore, shall be fined a sum not exceeding TWO THOUSAND AND NO/100 DOLLARS (\$2,000.00), and each and every day that such violation continues shall be considered a separate offense; provided, however, that such penal provision shall not preclude a suit to enjoin such violation. Frisco retains all legal rights and remedies available to it pursuant to local, state and federal law.

SECTION 6: Severability. If any section, subsection, sentence, clause or phrase of this Ordinance is for any reason, held to be unconstitutional or invalid by a court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Ordinance. Frisco hereby declares that it would have passed this Ordinance, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, and phrases be declared unconstitutional.

SECTION 7: Effective Date. This Ordinance shall become effective upon its passage and publication as required by the City Charter and by law.

**DULY PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF FRISCO, TEXAS, on this 1st day of October, 2013.**

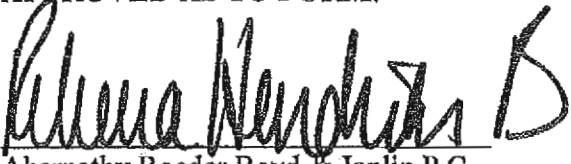
  
\_\_\_\_\_  
Maher Maso, Mayor

**ATTESTED AND CORRECTLY  
RECORDED:**

  
Jenny Page, City Secretary



**APPROVED AS TO FORM:**

  
Abernathy Roeder Boyd & Joplin P.C.  
Rebecca Hendricks Brewer, City Attorneys

Date(s) of Publication: October 4th and October 11, 2013, *Frisco Enterprise*

**Exhibit "A"**  
**CITY OF FRISCO DELETIONS/ADDITIONS**  
**2012 INTERNATIONAL MECHANICAL CODE<sup>1</sup>**

The following deletions and additions to the 2012 International Mechanical Code are hereby approved and adopted (*i.e.* deletions evidenced by strikethrough and additions evidenced by underline)<sup>2</sup>:

**Chapter 1, Scope and Administration** of the 2012 International Mechanical Code is amended as follows:

**Section 102 Applicability** of the 2012 International Mechanical Code is amended as follows:

**102.8 Referenced codes and standards.** The codes and standards referenced in this code herein shall be those that are listed in Chapter 15 and such codes, and standards shall be considered as part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections 102.8.1 and 102.8.2. Whenever amendments have been adopted by Frisco, as they exist or may be further amended, to the referenced codes and standards, each reference to said codes and standards shall be considered to reference the amendments and any future amendments thereto.

**Section 106 Permits** of the 2012 International Mechanical Code is amended as follows:

**106.5.2 Fee schedule.** The fees for mechanical work shall be ~~as indicated~~ established in the Frisco's Comprehensive Master Fees Ordinance, as amended.

**106.5.3 Fee Refund.** The building official shall authorize the refunding of fees as follows:

2. Not more than 80 percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.
3. Not more than 80 percent of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or canceled before any plan review effort has been expended.

**Chapter 3 General Regulations** of the 2012 International Mechanical Code is amended as follows:

**Section 304 Installation** of the 2012 International Mechanical Code is amended as follows:

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<sup>1</sup> Unless otherwise expressly provided herein, all phrases, words and/or terms used herein shall have the same meaning ascribed to the same in the 2012 International Mechanical Code (regardless of whether such phrases, words and/or terms are italicized herein).

<sup>2</sup> Other italicized and bold notations are provided throughout for informational purposes only. By way of example only, "[*Paragraph remains unchanged.*]"

**304.7 Private garages. [Entire subsection deleted.]**

**Section 306 Access and service space** of the 2012 International Mechanical Code is amended as follows:

**306.3 Appliances in attics.** Attics containing appliances shall be provided with an opening and unobstructed passageway large enough to allow removal of the largest appliance. The passageway shall not be less than thirty (30) inches (762 mm) high and twenty-two (22) inches (559 mm) wide and not more than twenty (20) feet (6096 mm) in length measured along the center line of the passageway from the opening to the appliance. The passageway shall have continuous unobstructed solid flooring not less than twenty-four (24) inches (610 mm) wide. A level service space not less than thirty (30) inches (762 mm) deep and thirty (30) inches (762 mm) wide shall be present at the front or service side of the appliance. The clear access opening dimensions shall be a minimum of twenty (20) inches by thirty (30) inches (508 mm by 762 mm), or larger and large enough to allow removal of the largest appliance. At a minimum, access to the attic space shall be provided by one of the following:

1. Permanent stairs or ladder fastened to the building.
2. A pull down stair with a three hundred (300) lb. rating.
3. An access door from an upper floor.

**306.5 Equipment and appliance on roofs or elevated structures.** Where equipment requiring access or appliances on elevated structure or the roof of a building such that personnel will have to climb higher than sixteen (16) feet (4877mm) above grade to access such equipment or appliance, an interior or exterior means of access shall be provided. Such access shall not require climbing over obstructions greater than thirty (30) inches (762mm) in height or walking on roofs having a slope greater than four (4) units vertical in twelve (12) units horizontal (33-percent slope). Such access shall not require the use of portable ladders. Permanent exterior ladders providing access need not extend closer than eight (8) feet (2438mm) to the finish. Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall.

**306.6 Catwalk.** On roofs having slopes greater than four (4) units vertical in twelve (12) units horizontal, a catwalk at least twenty-four (24) inches (406 mm) in width with substantial cleats spaced not more than sixteen (16) (406 mm) inches apart shall be provided from the roof access to the working platform at the appliance.

**306.7 Water heaters above ground or floor.** When the attic, roof, mezzanine or platform in which a water heater is installed is more than eight (8) feet (2438 mm) above the ground or floor level, it shall be made accessible by a stairway, permanent ladder with a minimum three hundred (300) pound capacity fastened to the building or an access door from an upper floor level.

**Exception:** Where a max ten (10) gallon water heater (or larger with approval): (i) is capable of being accessed through a lay-in ceiling; (ii) is

installed on a platform not more than ten (10) feet (3048 mm) above the ground or floor level; and (iii) may be reached with a portable ladder.

**Section 307 Condensate disposal** of the 2012 International Mechanical Code is amended as follows:

**307.2.1 Condensate disposal.** Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth (1/8) unit vertical in twelve (12) units horizontal (1-percent slope). Condensate shall not discharge into a publicly exposed area such as a street, alley, sidewalk or other areas so as to cause a nuisance.

**307.2.2 Drain pipe materials and sizes.** Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polybutylene, polyethylene, ABS, CPVC, ~~or~~ schedule 80 PVC pipe, when exposed to ultra violet rays, PVC pipe or tubing. All components shall be selected for the pressure and temperature exposure rating of the installation. Joints and connections shall be made in accordance with the applicable provisions of Chapter 7 of the International Plumbing Code relative to the material type. Condensate waste and drain line size shall not be less than 3/4-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes from more than one (1) unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with Table 307.2.2.

**307.2.3 Auxiliary and secondary drain systems.** In addition to the requirements of Section 307.2.1, where damage to any building components could occur as a result of overflow from the equipment primary condensate removal system, one of the following auxiliary protection methods shall be provided for each cooling coil or fuel fired appliance that produces condensate (Method 3 and 4 below may not be used for cooling or evaporator coils located in attics of residential occupancies. Discharge from auxiliary and secondary condensate waste systems shall be to a conspicuous location point to alert occupants in the event of a stoppage of the primary drain):

1. An auxiliary drain pan with a separate drain shall be provided under the coils on which condensation will occur. The auxiliary pan drain shall discharge to a conspicuous point of disposal to alert occupants in the event of a stoppage of the primary drain. However, the conspicuous point shall not create a hazard such as, among other things, dripping over a walking surface or other areas so as to create a nuisance. The pan shall have a minimum depth of 1 1/2 inches (38 mm), shall not be less than three (3) inches (76 mm) larger than the unit or the coil dimensions in width and length and shall be constructed of corrosion-resistant material. Galvanized sheet metal pans shall have a minimum thickness of not less than 0.0236-inch (0.6010mm) (No. 24 gage). Nonmetallic

- pans shall have a minimum thickness of not less than 0.0625 inch (1.6 mm).
2. A separate overflow drain line shall be connected to the drain pan provided with the equipment. Such overflow drain shall discharge to a conspicuous point of disposal to alert occupants in the event of a stoppage of the primary drain. However, the conspicuous point shall not create a hazard such as, among other things, dripping over a walking surface or other areas so as to create a nuisance. The overflow drain line shall connect to the drain pan at a higher level than the primary drain connection.

**Chapter 4 Ventilation** of the 2012 International Mechanical Code is amended as follows:

**Section 403 Mechanical ventilation** of the 2012 International Mechanical Code is amended as follows:

**403.2 Outdoor air required.** *[Paragraph remains unchanged.]*

**Exception:** Where the registered design professional demonstrates that an engineered ventilation system is designed in accordance with ASHRAE 62, ~~designs will prevent the maximum concentration of contaminants from exceeding that obtainable by the rate of outdoor air ventilation determined in accordance with Section 403.3 with the minimum required rate of outdoor air shall be reduced in accordance permitted as specified in~~ such engineered system design.

**Chapter 5 Exhaust Systems** of the 2012 International Mechanical Code is amended as follows:

**Section 504 Clothes Dryer Exhaust** of the 2012 International Mechanical Code is amended as follows:

**Section 504.6.5 Length identification.** Where the exhaust duct is concealed within the building construction, the equivalent length of the exhaust duct shall be identified on a permanent label or tag. The label or tag shall be located ~~within 6 feet (1829 mm) of~~ at the exhaust duct connection.

**Chapter 6 Duct systems** of the 2012 International Mechanical Code are amended as follows:

**Section 603 Duct construction and installation** of the 2012 International Mechanical Code is amended as follows:

**603.5 Nonmetallic ducts.** ~~Nonmetallic ducts shall be constructed with Class 0 or Class 1 duct material in accordance with UL 181. Fibrous duct construction shall conform to SMACNA Fibrous Glass Duct Construction Standards or NAIMA Fibrous Glass Duct Construction Standards. The maximum air temperature within nonmetallic ducts shall not exceed 250°F (121°C). Nonmetallic ducts are not permitted.~~

**603.6.1.1 Duct length.** Flexible air ducts shall not be limited in length. For other than residential construction, flexible ducts shall be limited to six (6) foot connections at end of duct runs.

**Section 607 Duct and transfer openings** of the 2012 International Mechanical Code are amended as follows:

**607.2.2 Hazardous exhaust ducts.** Fire dampers for hazardous exhaust duct systems shall comply with Section 510. Hazardous exhaust duct systems shall extend directly to the exterior of the building and shall not extend into or through ducts or plenums. Penetration of structural elements shall conform to this Section and the International Building Code, except that fire dampers are not required at penetration of fire-resistant rated assemblies.

*[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK.]*



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(The Index is provided for informational purposes only to note the location of the deletions/additions in the 2012 International Mechanical Code as set forth in this Ordinance)

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***END OF EXHIBIT "A"***